Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Installation Procedures (IP) for
TADIL-A/B Interface Version 3.0.5.1

Document Version 1.0

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Defense Information Systems Agency

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1. Scope

1.1 Identification

This Installation Procedure (IP) documents TADIL-A/B Interface, Version 3.0.5.1.

TADIL-A/B Interface Version 3.0.5.1 is hosted on the following platforms:

- C Hardware: Tactical Advanced Computer, TAC-3 (HP750/755)/TAC-4 (J210)
  Operating System: HP-UX 10.20
  DII COE Kernel: 3.0.1.0 (with patches P1, P2, P3, and P4)

- C Hardware: Sparc 10/20
  Operating System: Solaris 2.5.1
  DII COE Kernel: 3.0.0.3 (with patches P2, P3 (Ultra Sparc only), P4, P5, and P6)

Two-way Link-11 is supported on HP only, using the GET Engineering Full Wide NTDS card (# 10078501).

1.2 System Overview

The TADIL-A/B Interface core component adds passive and two-way TADIL-A/B Interface capability to Defense Information Infrastructure (DII) Common Operating Environment (COE) Unified Build Core-based systems.

This version of TADIL-A/B Interface satisfies multiple platform requirements using an implementation independent approach. Implementations currently supported include: FFG7 for Coast Guard, ATACC/TAOM for Marine Corps, Submarine for CCS Mk2, and TSC.

Related Documents

- C *Software User's Manual (SUM) for TADIL-A/B Interface Version 3.0.5.1*, 15 October 1997, INRI.

- C *Software Version Description (SVD) for TADIL-A/B Interface Version 3.0.5.1*, 15 October 1997, INRI.

2. Referenced Documents

The following documents are referenced elsewhere in this IP:

2.1 Government Documents

None.

2.2 Non-government Documents

a. *Software Version Description (SVD) for TADIL-A/B Interface Version 3.0.5.1*, DII.3051.HP1020_SOL251.TadAB_SVD_1.0, 15 October 1997.

3. System Environment

3.1 System Requirements

3.1.1 Hardware Requirements

TADIL-A/B Interface Version 3.0.5.1 is hosted on the following hardware:

- Tactical Advanced Computer, TAC-3 (HP750/755)/TAC-4 (J210)
- Sparc 10/20

The following configuration is recommended:

- RAM: 128 MB minimum; 192 optimum
- Disk space: 2 GB
- Swap Space: 300 MB

3.1.2 Operating System Requirements

TADIL-A/B Interface Version 3.0.5.1 requires the following operating systems:

- HP-UX 10.20 (TAC-3/TAC-4)
- Solaris 2.5.1   (Sparc 10/20)

3.1.3 Kernel Requirements

TADIL-A/B Interface Version 3.0.5.1 requires the following DII COE Kernels:

- TAC-3/TAC-4: requires Kernel 3.0.1.0 (with patches P1, P2, P3, and P4)

- Sparc 10/20: requires Kernel 3.0.0.3 (with patches P2, P3 (Ultra Sparc only), P4, P5, and P6)

3.2 System and Site Preparations

3.2.1 System Configuration

The following software must be properly installed prior to loading TADIL-A/B Interface 3.0.5.1:

- C appropriate operating system (as described above)
- C appropriate DII COE Kernel (as described above)
- C Unified Build 3.0.2.5
- C Unified Build 3.0.2.5P2

3.2.2 Operating System Preparation

Information needed to prepare the operating system is described in these documents:

- C *Kernel Installation Guide (HP-UX 10.20), Version 3.0.1.0,* 14 April 1997.
- C *Kernel Installation Guide, (Solaris 2.5.1), Version 3.0.0.3,* 7 April 1997.

3.2.3 Tape/Disk Preparation

The following unclassified tapes contain the TADIL-A/B Interface 3.0.5.1 software.

- C 4mm DAT cartridge, intended for TAC-3/TAC-4 hardware environment
- C 8mm EXABYTE cartridge, intended for Sparc 10/20 hardware environment

4. Installation Instructions

TADIL-A/B Interface 3.0.5.1 is a component of a DII 3.1 C4I system. The following installation procedures describe how to install this software.

4.1 Media Booting Procedures

To prepare a tape for installation:

1. Insert the tape in the DAT drive.

2. Select the System Administration SEGMENT INSTALLER utility.

3. Select the source and click READ CONTENTS. The contents of the tape appear in the SELECT SOFTWARE TO INSTALL portion of the SEGMENT INSTALLER window.

4.2   Installation Procedures

If the system does not contain previously installed software, the operating system (OS) and Kernel, with all patches, must be installed.

1.   Install the appropriate OS and Kernel.

   a.   Detailed installation instructions for HP 10.20 are in the *Kernel Installation Guide (HP-UX 10.20), Version 3.0.1.0,* 14 April 1997.

   b.   Detailed installation instructions for Solaris 2.5.1 are in the *Kernel Installation Guide, (Solaris 2.5.1), Version 3.0.0.3,* 7 April 1997.

2.   Ensure the appropriate Kernel patches are installed. The Kernel patches are *not* roll-up patches. Each of the patches (for the appropriate OS) must be installed consecutively.

   a.   HP: 3.0.1.0 Kernel patches P1, P2, P3, and P4.
   b.   Solaris: 3.0.0.3 Kernel patches P2, P3 (Ultra Sparc only), P4, P5, and P6.

3.   Ensure Unified Build (UB) 3.0.2.5 and UB 3.0.2.5P2 are installed:

4.   Install TADIL-A/B Interface.

   a.   Highlight TADIL-A/B Interface.
   b.   Click INSTALL.

4.3   Installation of Upgrades

Software previously installed on a system is listed in the CURRENTLY INSTALLED SEGMENTS portion of the INSTALLER window. To install the TADIL-A/B Interface software on a system with previously installed software:

1.   Deinstall the following software (if installed). Highlight and click DEINSTALL one at a time.

   a.   TADIL-A/B Interface
   b.   TADIL-A/B Interface Admin

2.   Ensure the appropriate DII COE Kernel patches are installed.

   a.   HP: 3.0.1.0 Kernel patches P1, P2, P3, and P4.
   b.   Solaris: 3.0.0.3 Kernel patches P2, P3 (Ultra Sparc only), P4, P5, and P6.

3.   Ensure the UB patch (3.0.2.5P2) is installed.

    4.   Install TADIL-A/B Interface.

          a.   Highlight TADIL-A/B Interface.
          b.   Click INSTALL.

4.4   Installation Verification

All successfully installed segments are listed in the CURRENTLY INSTALLED SEGMENTS portion of the INSTALLER window.

4.5   Initializing the Software

Reboot the system after the successful installation of all segments.

4.6   List of Changes and Enhancements

This version contains corrections to Version 3.0.4.2. See *Software Version Description (SVD)* [Section 2.2 (a)] for details.

4.7   Important Considerations

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5.   Notes

5.1   Acronyms

C4I	Command, Control, Communications, Computers, and Intelligence
COE	Common Operating Environment
DAT	Digital Audio Tape
DII	Defense Information Infrastructure
DFARS	Defense Federal Acquisition Regulation Supplement
GB	Gigabyte
HP-UX	Hewlett-Packard UNIX-based Operating System
INRI	Inter-National Research Institute, Inc.
IP	Installation Procedures
JOTS	Joint Operational Tactical System
LAN	Local Area Network
MB	Megabyte
RAM	Random Access Memory
SAM	System Administrator's Manual
STR	Software Test Report
SUM	Software User's Manual
SVD	Software Version Description
TAC-3/TAC-4	Tactical Advanced Computer, Version 3/4
TADIL	Tactical Data Link; Tactical Digital Information Link
TMS	Tactical Management System
UB	Unified Build
UCP	Universal Communication Processor
WAN	Wide Area Network